

AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS

1. (Cancelled).

2. (Currently Amended) A rotation control circuit of a motor, comprising:
 - a PWM control circuit of the said motor;
 - a rotational speed sensor of the said motor;
 - a reference signal generation circuit;
 - a phase comparing circuit;
 - a divider for dividing the detected rotational speed signal of the said motor; and
 - a rotation command means of the said motor;

wherein the phase difference between the signal from the said divider and the signal based on the said reference signal is sought with the said phase comparing unit, and this phase difference signal is supplied to the said PWM control circuit; and

wherein the said command means alters the division ratio of the said divider in accordance with the contents of the rotational speed alteration request to the said motor.

3. (Currently Amended) A driver comprising the rotation control circuit of a motor according to claim 2, wherein the said driver employs the motor controlled with the said control circuit as a drive source of a drive mechanism.

4-6. (Cancelled)

7. (Currently Amended) A vehicle having a vehicle body, a drive wheel, an auxiliary wheel, and a first drive source and in which the said first drive source rotates the said drive wheel to make the said vehicle run, comprising:

a position sensor of the said vehicle body which outputs a frequency signal as a detection signal;

drive control means of the said vehicle body; and

posture control means of the said vehicle body which has a second drive source for moving the position of the said drive wheel in relation to the vehicle body, a third drive source for making the said auxiliary wheel float from the road surface, and a control circuit for controlling the said second drive source in accordance with the frequency signal from the said position sensor and the said drive control means;

wherein the said control circuit has a reference signal generation circuit, a phase comparing circuit, a divider for dividing the said frequency signal, and a PWM control circuit, the said phase difference between the signal from the said divider and the signal based on the said reference signal is compared with said phase comparing unit, this phase difference signal is supplied to the said PWM control circuit, and the output of the said PWM control circuit is supplied to the said second drive source.

8. (Currently Amended) A vehicle according to claim 7, wherein the said first and second drive sources are electric motors.

9. (Currently Amended) A vehicle according to claim 7, wherein the said position sensor is a distance sensor of the said vehicle body and road surface, or an inclination sensor for detecting the inclination of the said vehicle body.

10-11. (Cancelled)

12. (Currently Amended) A driver comprising the rotation control circuit of a motor according to claim 2, wherein the said driver employs the motor controlled with the said control circuit as a drive source of a drive mechanism.

13-19. (Cancelled)

20. (Currently Amended) A vehicle according to claim 7, wherein the said detection signal is a distance signal for indicating the distance of the said vehicle body and road surface, or an inclination signal for indicating the inclination of the said vehicle body.